

July 18, 2000

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File 351:DERWENT WPI 1963-2000/UD=, UM=, & UP=200031  
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\*File 351: Updates and Alerts have been temporarily delayed due to  
a system problem. Please see HELP NEWS 351 for details.

Set	Items	Description
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?SS	PN=DE 4009626	
S1	1	PN=DE 4009626
?T	1/5/1	

1/5/1

DIALOG(R)File 351:DERWENT WPI  
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008829526 \*\*Image available\*\*  
WPI Acc No: 1991-333542/\*199146\*

XRPX Acc No: N91-255552

Friction clutch coupling - has at least one control assembly with spring,  
and shape memory metal

Patent Assignee: HOFFELD H (HOFF-I)

Inventor: HOFFELD H

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4009626	A	19911107	DE 4009626	A	19900326	199146 B
DE 4009626	C	19920220				199208

Priority Applications (No Type Date): DE 4009626 A 19900326

Abstract (Basic): DE 4009626 A

The frictional coupling for detachably joining two drive-pieces (1, 2, 5, 6) connected in one line incorporates at least one control (10) comprising components made of shape memory metal. Tension force in the form of a spring (8) is exerted on the drive pieces causing a 'closing' action.

The control is positioned on the coupling so that, with a change in shape caused by an increase in temperature of the medium surrounding the coupling, the drive pieces are exposed to a release-force leading to 'opening'.

USE/ADVANTAGE - The coupling is automatically released when the temperature rises. (5pp Dwg.No.2/3)

Title Terms: FRICTION; CLUTCH; COUPLE; ONE; CONTROL; ASSEMBLE; SPRING;  
SHAPE; MEMORY; METAL

Derwent Class: Q63

International Patent Class (Additional): F16D-007/02; F16D-013/71;  
F16D-043/25; F16D-047/06

File Segment: EngPI

?B345

18jul00 13:23:48 User212749 Session D5268.2.

Sub account: C794:35551 CM

\$3.86 0.176 DialUnits File351  
\$3.76 1 Type(s) in Format 5

\$3.76 1 Types

\$7.62 Estimated cost File351

\$0.19 TELNET

\$7.81 Estimated cost this search

\$7.88 Estimated total session cost 0.339 DialUnits

File 345:Inpadoc/Fam.& Legal Stat 1968-2000/UD=200027  
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DIALOG(R) File 345:Inpadoc/Fam.& Legal Stat  
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Basic Patent (No,Kind,Date): DE 4009626 A1 911107 <No. of Patents: 002>

## Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date
DE 4009626	A1	911107	DE 4009626	A	900326 (BASIC)
DE 4009626	C2	920220	DE 4009626	A	900326

## Priority Data (No,Kind,Date):

DE 4009626 A 900326

## PATENT FAMILY:

## GERMANY (DE)

Patent (No,Kind,Date): DE 4009626 A1 911107

REIBSCHLUESSIGE KUPPLUNG (German)

Patent Assignee: HOFFELD HARALD DIPL ING (DE)

Author (Inventor): HOFFELD HARALD (DE)

Priority (No,Kind,Date): DE 4009626 A 900326

Applic (No,Kind,Date): DE 4009626 A 900326

IPC: \* F16D-043/25; F16D-013/71; F16D-007/02; F16D-047/06; B60K-017/02

Derwent WPI Acc No: ; G 91-333542

Language of Document: German

Patent (No,Kind,Date): DE 4009626 C2 920220

REIBSCHLUESSIGE KUPPLUNG (German)

Patent Assignee: HOFFELD HARALD DIPL ING (DE)

Author (Inventor): HOFFELD HARALD (DE)

Priority (No,Kind,Date): DE 4009626 A 900326

Applic (No,Kind,Date): DE 4009626 A 900326

Filing Details: DE C2 D2 Grant of a patent after examination process

IPC: \* F16D-043/25; F16D-013/71; F16D-007/02; F16D-047/06

Derwent WPI Acc No: \* G 91-333542

Language of Document: German

## GERMANY (DE)

## Legal Status (No,Type,Date,Code,Text):

DE 4009626	P	900326	DE AE	DOMESTIC APPLICATION (PATENT APPLICATION) (INLANDSANMELDUNG (PATENTANMELDUNG))
			DE 4009626	A 900326

DE 4009626	P	911107	DE A1	LAYING OPEN FOR PUBLIC INSPECTION (OFFENLEGUNG)
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DE 4009626	P	911107	DE OP8	REQUEST FOR EXAMINATION AS TO PARAGRAPH 44 PATENT LAW (PRUEFUNGSANTRAG GEM. PAR. 44 PATG. IST GESTELLT)
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DE 4009626	P	920220	DE D2	GRANT AFTER EXAMINATION (PATENTERTEILUNG NACH DURCHFUEHRUNG DES PRUEFUNGSVERFAHRENS)
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DE 4009626	P	920813	DE 8364	NO OPPOSITION DURING TERM OF OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE DASS EINSPRUCH ERHOBEN WURDE)
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DE 4009626	P	990408	DE 8339	CEASED/NON-PAYMENT OF THE ANNUAL FEE (WEGEN NICHTZ. D. JAHRESGEB. ERLOSCHEN)
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Sub account: C794:35551 CM

\$0.84 0.175 DialUnits File345

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\$10.93 Estimated cost this search  
\$18.81 Estimated total session cost 0.514 DialUnits